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dies and Central Pacific, it will be necessary to suppose that they were created separately, as we find them, each adapted to its province; or else that they have descended from common ancestors, becoming gradually different by natural selection or otherwise, and pointing to an earlier, very ancient, and extensive connection between the two oceans.

Prof. O. C. Marsh exhibited some remarkable fossil Sponges from the Lower Silurian of Kentucky, for which he had recently proposed the new genus *Brachiospongia*. The type of the genus was *B. Raemerana*, and several other species have recently been discovered. These forms are very unlike any known sponges, recent or fossil, and are of great scientific interest. A full description of them will soon be published.

"On certain Effects produced upon Fossils by Weathering." By Professor O. C. Marsh. Certain peculiarities in some fossil shells, which had been a puzzle to the German geologists, were very clearly explained by Professor Marsh as due to the action of the elements, the parts of the shell being differently composed and of different degrees of hardness. This has been most frequently noticed in fossil Cephalopods, which in some instances show lobe-lines, characteristic of two different genera on the same specimen. This is very often the case with *Ceratites nodosus*, from the Trias of Germany.

NOTE.—This number is devoted largely to the proceedings of the American Association for the Advancement of Science. In order to make room for the valuable and interesting address of the President, and the abstracts of papers read in the Natural History Section, we have crowded out articles and illustrations originally intended for this number.

We trust all our readers will feel an interest in the growth and full success of the American Association, whose meetings are doing so much for the diffusion and advancement of Science in this country, and prove such pleasant reunions for all interested in the cause.

The abstracts of the papers will be continued in future numbers.

BOOKS RECEIVED.

Life Beneath the Waters; or the Aquarium in America. By Arthur M. Edwards. New York; 1858. 12mo. Illustrated.

On a Fungoid Parasite, or Caterpillar Fungus, from the Philippine Islands. By Dr. Samuel Kneeland. (From the Proceedings Boston Society Natural History.) 1867. 8vo, pp. 6.

Notes on Fossils recently obtained from the Laurentian Rocks of Canada, and on objections to the organic nature of Eozoön. By J. W. Dawson, LL. D.; with Notes by W. B. Carpenter. Plates XI and XII. (From the Proceedings of the Geological Society, London, May 8, 1867.) 8vo, pp. 7.

Catalogue of the Lepidoptera of New Orleans and its vicinity; prepared by L. Von Reizenstein. New Orleans, 1863. 16mo, pp. 10.

Mental and Social Culture; a Text-book for Schools and Academies. By L. C. Loomis, New York. J. W. Schermerhorn & Co. 1867.